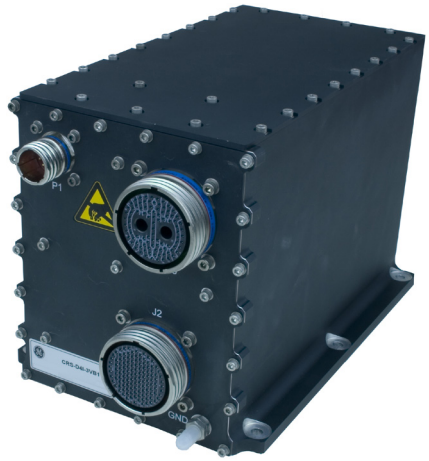
GE
Intelligent Platforms



CRS-D4I-3VB1

Conduction Cooled 3U VPX Application Ready Computer

Features

- **Rugged base plate cooled solution**
  - 4 slot 3U VPX
  - MIL-DLT-38999 connectors
- **Intel 2nd Gen Core i7 @ 2.2 GHz**
- **Linux operating system**
- **I/O capabilities**
  - Ethernet
  - Serial
  - USB
  - VGA
  - DVI
  - MIL-STD-1553
  - ARINC 429
  - Audio
  - Discrete
  - HD-SDI
  - STANG3350
- **Designed for:**
  - Military and commercial aircraft
  - Helicopters
  - Military and civilian UAVs
  - Ground vehicles

GE Intelligent Platforms' CRS-D4I-3VB1 rugged system is a packaged prevalidated data processing and control computer system with an Intel-based processor single board computer that provides a rugged and highly flexible computing platform suited for applications requiring rock-solid reliability such as civilian and military UAVs, manned commercial and military aircraft, helicopters, over- and underwater research vessels, ground vehicles, and locomotives. GE's COTS-based CRS-D4I-3VB1 Application Ready computer system can be deployed in the field as soon as your application is ready, or use the CRS-D4I-3VB1 as a starting point for multiple application specific configurations.

The arduous task of integrating off the shelf boards has already been done for you — shortening your time to project completion. You have one point of contact for all issues and a single part number — not a collection of parts.

The CRS-D4I-3VB1 successfully integrates GE's boards, and modules, drawn from their wide selection of COTS boards, into open modular systems that can be tested and qualified for rugged systems deployment. The CRS-D4I-3VB1 contains a fully integrated set of boards and modules designed to fulfill control and data processing applications. GE Intelligent Platforms' Systems Group is fully compliant with AS9100 processes and brings years of experience designing rugged systems to your project. Our world class program management competencies are tailored to help mitigate your risk. GE can conducts all design, analysis, manufacturing, and testing in compliance with any system appropriate MIL and industry standards such as MIL-STD-810, 704, 461, and DO-160.

GE has integrated and tested the CRS-D4I-3VB1 and provides Board Support Packages (BSP's) and drivers that you can easily use to integrate your application and reduce your software development cycle time.

To help jump start your project, GE offers Laboratory Development Units, or starter kits, preconfigured for development purposes. Based on the required system controller architecture and bus system, GE can provide the appropriate development system for your specific needs.

Product Lifecycle Management
GE offers a Product Lifecycle Management (PLM) program of innovative Long-Term Support services to reduce the overall cost of ownership and provide industry-leading safeguards against component obsolescence. GE Intelligent Platforms is committed to supporting customer programs throughouttheir lifecycle.

CRS-D4I-3VB1 Conduction Cooled 3U VPX Application Ready Computer

Specifications

Processor
- Intel 2nd Gen Core i7 @ 2.2 GHz

SBC RAM
- Up to 8GB DDR3

SBC Flash Memory
- Up to 32GB NAND Flash

Additional Memory
- Internal SATA Solid State Drive (up to 1TB)

Operating System
- Linux Fedora 14

Cooling
- Baseplate

Form Factor
- 3U VPX

Slots
- 4

Dimensions (H x W x D, excludes connectors)
- 6.1 x 5.7 x 8.7 (inches); 154 x 144 x 219 (mm)

Weight
- 13.4 lbs (6.1 kg)

Input Power (MIL-STD)
- 28 VDC (MIL-STD-704F*)
  Hold up time depends on processor usage

Designed to:

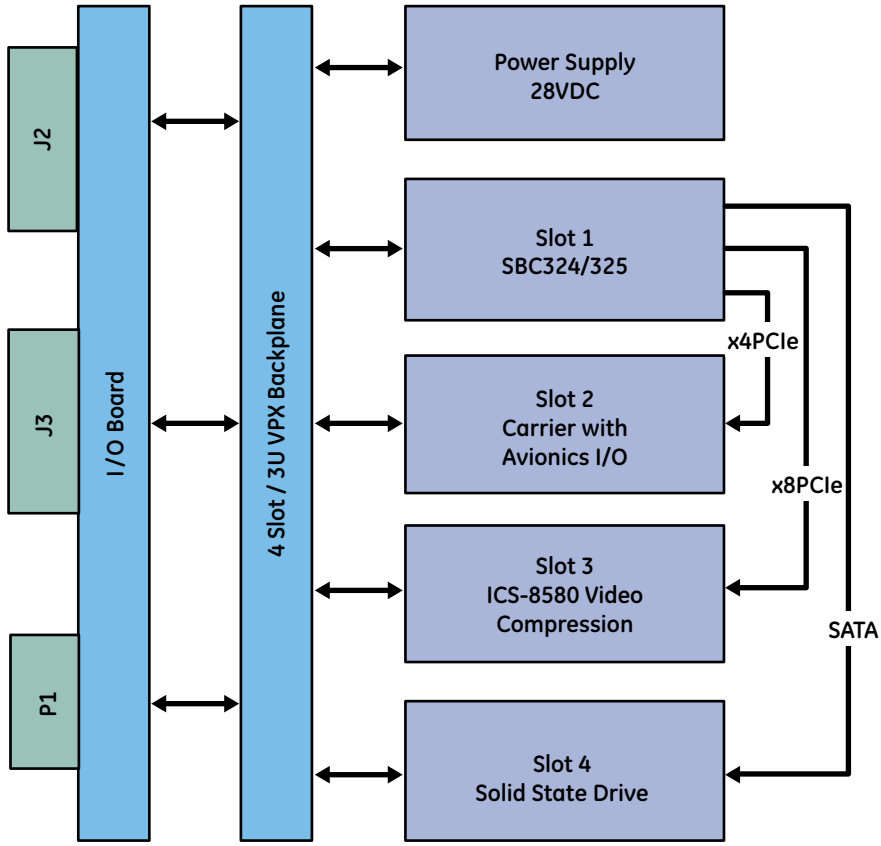
Operating Temperature
- -40°C to +71°C

Shock (operational)
- +40g SRS (MIL-STD-810G/1)

Random Vibration
- $0.1g^2$/Hz, 15-1000Hz; 6dB/octave decrease, 1000-2000Hz (MIL-STD-810G, Method 514.6, Procedure 1)

Humidity
- 95% non-condensing (DO-160 Procedure 6, Category B)

Block Diagram



Ordering Information

CRS-D4I-3VB1	920-100919-001

Contact your sales representative for additional configuration options.

About GE Intelligent Platforms

GE Intelligent Platforms is a General Electric (NYSE: GE) company, headquartered in Charlottesville, VA and part of GE Energy Management. The company's Military/Aerospace business, headquartered in Huntsville, AL, and Towcester, England, provides one of the industry's broadest ranges of high performance, rugged, SWaP-optimized embedded computing platforms. Backed by programs that provide responsive customer support and minimize long term cost of ownership for multi-year programs, GE's solutions are designed to help customers minimize program risk and cost, and to speed time-to-market. For more information, visit defense.ge-ip.com.

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